

New Jersey Department of Environmental Protection Site Remediation Program

Monitoring Well Certification Form B - Location Certification

	(For Department use only)
SECTION A. SITE NAME AND LOCATION	
Site Name: Hess Former Port Reading Complex	
List all AKAs:	
Street Address: 750 Cliff Road	
Municipality: Township of Woodbridge (Township, Borough or	City)
County: Middlesex Zip Code: 07064	
Program Interest (PI) Number(s): Case Tracking Number	per(s):
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner	
2. Well Location (Street Address)	
3. Well Location (Municipal Block and Lot) Block# Lot	#
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently affixed to the well casing):	
2. Site Well Number (As shown on application or plans): FA-1	
Geographic Coordinate NAD 83 to nearest 1/100 of a second:	
Latitude: North 40°33'37.39" Longitude: West 74°14'2	4.04"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:	
North 629153 East 564358	
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 9.67	
Elevation Top of Outer casing: 10.02 Elevation of ground: 10.01 PAVE	
Check one: NAVD 88 NVGD29 On Site Datum Other	
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on	-site datum is used, identify
here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88	3).
BENCHMARK: NJTP PISCATAWAY CORPS ARP ELEV.= 109.56' (NAVD 88 DATUM)	
7. Significant observations and notes:	
SECTION D. LAND SURVEYOR'S CERTIFICATION SEA	AL
I certify under penalty of law that I have personally examined and am familiar with the	_
information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the	
submitted information is true, accurate and complete. I am aware that there are significant	
penalties for submitting false information including the possibility of fine and imprisonment.	Data 2/18/2020
Professional Land Surveyor's Signature:	Date
Surveyor's Name: James J. Heiser License N	
	ation #: 24GA28042200
Mailing Address 220 Old New Brunswick Road Suite 201	Linear to the
City/Town: Piscataway State New Jersey	_ Zip Code: 08854
Phone Number 732.764.0100 Ext.: Fax:	732.764.0990

Well Permit Number **E202000100**

PROPERTY	OWNER: _	BUCKEYE PO	RT READING	TERMINAL, I	LC				
Company/Org	ganization: <u>B</u>	uckeye Port Ro	ading Terminal	, LLC					
Address: 1 Greenway plaza suite 600 Houston, Texas 77046									
WELL LOC	ATION: Fo	rmer Hess Port	Reading Comp	lex 10820					
Address: 75	50 Cliff Road						·		
County: Mi	ddlesex	_ Municipality	y: Woodbridge	e Twp	Lot: 1		Block: _76	50.02	
Easting (X):	564402	Northing	(Y): 629102		DATE WELL S	TART	TED: January 9,	2020	
Coordi	nate System: N	VJ State Plane (NAD83) - USF	EET DA	ATE WELL COM				
WELL USE:	: MONITOR	ING							
Other Use(s): Local ID: FA-1									
WELL CON	STRUCTION	N							
Total Depth	Drilled (ft.):_	13	Finished We	ell Depth (ft.):	13	Well	Surface: Flus	sh Mount	
	Depth to	Depth to	Diameter		Material		Wgt/Ratin	g/Screen # Used	
Borehole	Top (ft.)	Bottom (ft.)	(inches)				(lb	s/ch no.)	
Casing	0	13	2		PVC			Sch 40	
Screen	2	13	2		PVC			.010	
	Depth to	Depth to	Outer	Inner					
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Nea	at Cement (lbs.)	Water (gal.)	
Grout Gravel Pack	0	1 13	8	2 2	1	<u> </u>	19 #1 sand	1	
	_	re method (Trer			lling Method: Hol	llow S			
ADDITIONA Protective Ca Static Water I Water Level I Well Develop	AL INFORM sing: No Level: 3 ft. bo Measure Tool: oment Period: evelopment: pr	ATION elow land surfa tape 5 hrs.	•	Pur Tot Dri Dri	np Capacity: _ gpm al Design Head: _ f lling Fluid: Il Rig: <u>CME 75</u> ılth and Safety Plan	ı ît.	-		
<u>ATTACHM</u>	ENTS:								
GEOLOGIC		-1+ 0							
	Γ - Other asph		gravelly sands, l	little or no fines			.		
		nds, sand-silt m		ittle of no fines					
ADDITIONA	AL INFORM	ATION:							
		o Tavarez,							
Driller of Re	cord: <u>MONI</u>	TORING LICE	NSE # <u>57873</u> 6		Company	: _UN	NI-TECH DRILL	ING CO INC	



PROJECT NUMBER: 1114J01.19
PROJECT NAME: AOC 103 - Fire Pits
Former Port Booding Complex

Former Port Reading Complex

CLIENT: Hess Corp.

ADDRESS: 750 Cliff Rd., Port Reading, NJ

DRILLING DATE: 1/7/20 **DRILLING COMPANY**: UTD

DRILLER: BH
DRILLING METHOD: HSA
TOTAL DEPTH: 14'

LOGGED BY: KY
DIAMETER: 2"
DTW: 2.5'

CASING: 2' SCREEN: 11'

NOTES: Pre-cleared to 6' using hand auger. Did not observe any ash/burnt material. PID hits

appear to be associated with organic material. Set well at 13' bgs.

PID (ppm)	Samples Depth (ft) Graphic Log		Graphic Lo	Material Description	Well Diagram		
				ASPHALT	Grout		
0.0		1		HISTORIC FILL: Brown fine to coarse sand, some fine gravel and silt, loose	Bentonite		
0.0		2		☑			
0.0		3					
0.0		4	HF				
0.0		5					
0.0		6					
0.0		7			Filter		
0.0		8		SILTY SAND: Brown fine to coarse sand and silt, some fine gravel, slight organic odor, loose	Pack		
0.0		9					
0.0		10	—SM	SILTY SAND: Brown fine to coarse sand and silt, trace fine gravel, slight organic odor, loose			
0.0		11					
17.8		12					
23.7		13	PT	MEADOW MAT			
86.9		14			100000000		



New Jersey Department of Environmental Protection Site Remediation Program

Monitoring Well Certification Form B - Location Certification

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SECTION A. SITE NAME AND LOCATION	
Site Name: Hess Former Port Reading Complex	
List all AKAs:	
Street Address: 750 Cliff Road	
Municipality: Township of Woodbridge	(Township, Borough or City)
County: Middlesex	Zip Code: 07064
Program Interest (PI) Number(s):	Case Tracking Number(s):
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner	
Well Location (Street Address)	
Well Location (Municipal Block and Lot) Block#	Lot #
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently affix	ed to the well casing):
2. Site Well Number (As shown on application or plans): FA-2	
Geographic Coordinate NAD 83 to nearest 1/100 of a second	d:
Latitude: North 40°33'36.60"	Longitude: West 74°14'23.70"
4. New Jersey State Plane Coordinates NAD 83 datum, US sur	vey feet units, to nearest foot:
North 629073	East 564385
5. Elevation of Top of Inner Casing (cap off) at reference mark	(nearest 0.01'): 10.39
Elevation Top of Outer casing: 10.76 Elev	vation of ground: 10.79 PAVE
Check one: NAVD 88 □ NVGD29 □ On Site D	atum
6. Source of elevation datum (benchmark, number/description a here, assume datum of 100', and give approximated actual e	
BENCHMARK: NJTP PISCATAWAY CORPS ARP ELEV.= 109.56' (NAVD 88 DATUM)	
7. Significant observations and notes:	
SECTION D. LAND SURVEYOR'S CERTIFICATION	SEAL
I certify under penalty of law that I have personally examined and ar information submitted in this document and all attachments and that those individuals immediately responsible for obtaining the informati submitted information is true, accurate and complete. I am aware the penalties for submitting false information including the possibility of	, based on my inquiry of on, I believe the lat there are significant
Professional Land Surveyor's Signature:	Date 2/18/2020
Surveyor's Name: James J. Heiser	License Number: 24GS04331100
Firm Name: DPK Consulting, LLC	Certificate of Authorization #: 24GA28042200
Mailing Address 220 Old New Brunswick Road Suite 201	
City/Town: Piscataway State	New Jersey Zip Code: 08854
Phone Number 732.764.0100 Ext.:	Fax: 732.764.0990
	-

Well Permit Number **E202000101**

PROPERTY	OWNER:	BUCKEYE PC	RT READING	TERMINAL, I	LC		
Company/Or	ganization: B	uckeye Port Re	eading Terminal	, LLC			
Address: 1	Greenway pla	za suite 600 Ho	ouston, Texas 7	7046	<u></u>		
WELL LOC	CATION: Fo	rmer Hess Port	Reading Comp	lex 10820			
Address: 7:	50 Cliff Road			****			
County: Mi	ddlesex	_ Municipalit	y: Woodbridge	Twp	_ Lot:_1	Block:	760.02
			(Y): <u>629045</u>			TARTED: January 8	·
			NAD83) - USFI	EET D.	ATE WELL COM	PLETED: January 8	, 2020
	: MONITOR						
Other Use(s)):				Local ID: FA	A-2	
WELL CON	STRUCTION	N					
Total Depth	Drilled (ft.):_	14	Finished We	ell Depth (ft.):	14	Well Surface: Flo	ısh Mount
	Depth to	Depth to	Diameter		Material		ng/Screen # Used
Borehole	Top (ft.)	Bottom (ft.)	(inches)			(1	bs/ch no.)
Casing	0	2	2		PVC	-	Sch 40
Screen	2	14	2		PVC		.010
	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)		Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout Gravel Pack	0	1 14	8	$-\frac{2}{2}$	1	19 #1 sand	1
	thod: Pressur	e method (Trei	nie Pipe)		lling Method: Hol	· · · · · · · · · · · · · · · · · · ·	
Protective Ca Static Water Water Level Well Develop Method of Do		elow land surfa tape .5 hrs.	ce	Tot Dri Dri	np Capacity: _ gpm al Design Head: _ f lling Fluid: ll Rig: <u>CME 75</u> alth and Safety Plan	ì.	
<u>ATTACHM</u>	ENTS:						
GEOLOGIC							
	Γ - Other aspha			101 · · · · · · · · ·			
			gravelly sands, l gravelly sands,		s some silt		
	AL INFORMA						
ADDITION	AL IN ORM	arion.			-		
Driller of Rec		o Tavarez, FORING LICE	NSE # 578736		Company	: UNI-TECH DRIL	LING CO INC



PROJECT NUMBER: 1114J01.19 PROJECT NAME: AOC 103 - Fire Pits Former Port Reading Complex

CLIENT: Hess Corp.

ADDRESS: 750 Cliff Rd., Port Reading, NJ

DRILLING DATE: 1/8/20 DRILLING COMPANY: UTD

DRILLER: ET

DRILLING METHOD: HSA TOTAL DEPTH: 14'

LOGGED BY: KY **DIAMETER: 2"**

DTW: 3' CASING: 2' SCREEN: 12'

NOTES: Pre-cleared to 6' using hand auger. Did not observe any ash/burnt material. PID hits appear to be associated with organic material. Set well at 14' bgs.

PID (ppm)	Samples	Depth (ft) Graphic Log		Material Description	Well Diagram		
				ASPHALT	Grout		
0.0		1		HISTORIC FILL: Brown fine to coarse sand, some fine gravel and silt, loose	Bentonite		
0.0		2					
0.0		3		<u>▼</u>			
0.0		4	HF				
0.0		5					
0.0		6					
0.0		7					
0.0		8		SILTY SAND: Brown fine sand and silt, medium dense	Filter		
0.0		9	-SM				
0.0		10		CLAYEY SILT: Black silt, some clay, wet, soft, slight organic odor			
16.6		11					
29.1		12		SILTY SAND: Brown fine to coarse sand and silt, some fine gravel, organic odor			
46.8		13	-SM				
77.6		14		MEADOWNAT			
94.6		15	PT	MEADOW MAT			



New Jersey Department of Environmental ProtectionSite Remediation Program

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Site Name: Hess Former Port Reading Complex	
List all AKAs:	
Street Address: 750 Cliff Road	
Municipality: Township of Woodbridge	(Township, Borough or City)
County: Middlesex	
Program Interest (PI) Number(s):	Case Tracking Number(s):
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner	
2 Well Location (Street Address)	
3. Well Location (Municipal Block and Lot) Block#	Lot #
SECTION C. WELL LOCATION SPECIFICS	
1. Well Permit Number (This number must be permanently	affixed to the well casing):
2. Site Well Number (As shown on application or plans): F	
3. Geographic Coordinate NAD 83 to nearest 1/100 of a sec	cond:
Latitude: North 40°33'36.23"	Longitude: West 74°14'23.21"
4. New Jersey State Plane Coordinates NAD 83 datum, US	survey feet units, to nearest foot:
North 629034	East <u>564422</u>
5. Elevation of Top of Inner Casing (cap off) at reference ma	ark (nearest 0.01'): 10.84
Elevation Top of Outer casing: 11.28	Elevation of ground: 11.26 PAVE
Check one: NAVD 88 □ NVGD29 □ On Sit	te Datum
	on and elevation/datum). If an on-site datum is used, identify
here, assume datum of 100', and give approximated actu BENCHMARK: NJTP PISCATAWAY CORPS ARP	al elevation (referencing NAVD 88).
ELEV.= 109.56' (NAVD 88 DATUM)	
7. Significant observations and notes:	
	<u> </u>
SECTION D. LAND SURVEYOR'S CERTIFICATION	SEAL
I certify under penalty of law that I have personally examined and information submitted in this document and all attachments and	d am familiar with the
information submitted in this document and all attachments and those individuals immediately responsible for obtaining the inform	
submitted information is true, accurate and complete. I am awar penalties for submitting false information including the possibility	e that there are significant
	2/18/2020
Professional Land Surveyor's Signature: Surveyor's Name: James J. Heiser	Date
Firm Name: DPK Consulting, LLC	
Mailing Address 220 Old New Brunswick Road Suite 201	Certificate of Authorization #: 24GA28042200
D:	N
700 701 0100	
Phone Number	rt.: Fax: _732.764.0990

Service ID:

1052081

This document has not yet been reviewed and approved or denied by the NJ DEP. Deficiencies in submittal information or actual construction may result in denial.

WELL RECORD SUBMITTAL PDF

PROPERTY (OWNER:	Buckeye Port Reading Terminal, LLC							
Organization:		Buckeye Port Reading Terminal, LLC							
Address:		1 Greenway	/ plaza suite 6	00, Houston,	Texas 770 <u>46</u>				
WELL LOCA	TION:	Former Hes	s Port Readin	g Complex 10	0820				
Address:		750 Cliff Ro					-		
			Woodbridge)			<u> </u>		
County: M	liddlesex	Municipality	: <u>Twp</u>		<u>1</u> BI	lock: <u>760.02</u>			
Easting(X): 50	64954	Northing(Y)	: <u>628885</u>	Coordi	nate System: <u>N</u>	J State Plane (NAD83) - USFEET		
	Method: C	SPS		Poin	t of Reference: <u>W</u>	/ell			
GPS N	/lanufacturer: <u>N</u>	/legellan		S	urveyor Name:	<u> </u>			
	GPS Model: N	Mobile Mappe	r CX	Surve	eyor License #:				
	Accuracy: 1				Accuracy units: <u>Fe</u>	eet			
WELL USE:	Monitoring	9			DATE WELL S	STARTED: <u>01</u>	/08/2020		
Other Use(s):					DATE WELL	COMPLETED: 01	/08/2020		
WELL CONS	TRUCTION								
Permit N		Total Denti	h Drilled(ft): 15	5	Drillin	ng Company: <u>ERIBER</u>	TO TAVADEZ		
	00102			5		Oriller Name: <u>Robert F</u>			
Local ID: FA-				ush Mount		License No.: <u>0013756</u>	•		
		***************************************		gorrino ant		21001130 140 <u>0010700</u>			
	Depth to Top	Depth to	Diameter			W (D () (0			
	(ft.)	Bottom (ft.)	(inches)		Material	Wgt./Rating/Se	no.)		
Borehole(s)	0	15	8		N/A		N/A		
Casing(s)	0	2	2		PVC	Sch			
Screen(s)	2	15	2		PVC	.010			
		D 11- 1-				Material	_		
	Depth to Top (ft.)	Depth to	Outer	Inner	Bentonite (lbs.)		Water (gal.)		
Grout	0	1	8	2	1	19	1		
Gravel Pack	1	15	. 8	2		#1 Sand	!		
Grouting Meth	nod: <u>Pressure</u>	method (Tren	nie Pino)		ling Mothod: Halle				
_					ling Method: <u>Holk</u>	DW Stelli Augers			
Additional Info									
Atta	chments:								
RECORD OF	TEST			Dept	th to Pump:	ft. bek	ow land surface		

Test Date:			Pump Capacity: _		gpm		
Static Water Leve	l: <u>6</u>	ft. below land surfac	ace Total Design Head:ft.				
Pumping Water Level:ft. below land surfa-			e Pump Horsepower:_				
Water Level Meas	ure Tool: <u>tape</u>		If pump tested [Dischar	ge Rate:	gpm	
Pumping Equipme				Duration	n of Test:	hours	
Well Yield:		gpm	Date Boring Decommissioned:				
PUMPING EQUIP	MENT AND ADDI	TIONAL	Well Development Period: .5			_hours	
INFORMATION			Method of Developmen	nt:		_	
Installed:			Protective Casing: No)	_	
Installer's Name:			Drilling Fluid:			_	
Installer's Registration No.:			Drill Rig: <u>CN</u>		IE 75	_	
Pump Type:			Health and Safety Plan: Yes		s	_	
GEOLOGIC LOG							
Depth to Top	Depth to Bottom	Color	USCS		Additional De	scription	
0	11	gray	OT - Other		asphalt & gravel		
			SW - Well-grade	ed			
			sands and gravelly san	ds,			
11	5	brown	little or no fines				
			SW - Well-grade	ed			
			sands and gravelly san	ds,			
5	13	brown	little or no fines		some silt		
			OL - Organic sil	lts and			

13

organic silty clays of low

plasticity

gray



PROJECT NUMBER: 1114J01.19
PROJECT NAME: AOC 103 - Fire Pits

Former Port Reading Complex

CLIENT: Hess Corp.

ADDRESS: 750 Cliff Rd., Port Reading, NJ

DRILLING DATE: 1/8/20 **DRILLING COMPANY:** UTD

DRILLER: ET

DRILLING METHOD: HSA **TOTAL DEPTH:** 15'

LOGGED BY: KY

DIAMETER: 2"
DTW: 3'

CASING: 2' SCREEN: 13'

NOTES: Pre-cleared to 6' using hand auger. Did not observe any ash/burnt material. Set well at 15'

bgs.

bgo.							
PID (ppm)	Samples Depth (ft) Graphic Log		Graphic Log	Material Description	Well Diagram		
				ASPHALT	Grout		
0.0		1		HISTORIC FILL: Brown fine to coarse sand, some fine gravel and silt, loose	Bentonite		
0.0		2					
0.0		3	HF	፟ <u>\</u>			
0.0		4					
0.0		5		HISTORIC FILL: Dark brown/black fine to coarse sand and fine gravel, some silt, trace clay, petroleum-like odor			
22.8		6		SILTY SAND: Dark brown fine to coarse sand and silt, some fine gravel,	1:: ::		
6.4				loose, petroleum-like odor, sheen on water			
21.7		7					
22.8							
23.5		8			Filter		
21.8 27.7		9					
25.4							
26.5		10					
36.4			SM				
56.3		11					
85.3							
36.4		12					
27.2							
20.9		13					
15.7							
14.9		14					
11.5							
9.5		15					



New Jersey Department of Environmental Protection Site Remediation Program

Monitoring Well Certification Form B - Location Certification

	(For Department use only)
SECTION A. SITE NAME AND LOCATION	
Site Name: Hess Former Port Reading Complex	
List all AKAs:	
Street Address: 750 Cliff Road	
Municipality: Township of Woodbridge	(Township, Borough or City)
County: Middlesex	Zip Code: 07064
Program Interest (PI) Number(s):	Case Tracking Number(s):
SECTION B. WELL OWNER AND LOCATION	
1. Name of Well Owner	
2. Well Location (Street Address)	~
Well Location (Municipal Block and Lot) Block#	Lot #
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently affixed to	the well casing):
Site Well Number (As shown on application or plans): FA-4	the well easilig).
Geographic Coordinate NAD 83 to nearest 1/100 of a second:	
	ongitude: West 74°14'22.16"
New Jersey State Plane Coordinates NAD 83 datum, US survey fe	
	ast 564504
5. Elevation of Top of Inner Casing (cap off) at reference mark (near	A 10 - 10 - 10
	of ground: 11.38 PAVE
Check one: NAVD 88 NVGD29 On Site Datum	Other
6. Source of elevation datum (benchmark, number/description and eleve, assume datum of 100', and give approximated actual elevati	evation/datum). If an on-site datum is used, identify
BENCHMARK: NJTP PISCATAWAY CORPS ARP	on (referencing NAVD 66).
ELEV.= 109.56' (NAVD 88 DATUM)	
7. Significant observations and notes:	
SECTION D. LAND SURVEYOR'S CERTIFICATION	
I certify under penalty of law that I have personally examined and am fami	SEAL
information submitted in this document and all attachments and that, base	ed on my inquiry of
those individuals immediately responsible for obtaining the information, I be submitted information is true, accurate and complete. I am aware that the	
penalties for submitting false information including the possibility of fine ar	nd imprisonment.
Professional Land Surveyor's Signature:	Date 2/18/2020
Surveyor's Name: James J. Heiser	License Number: 24GS04331100
Firm Name: DPK Consulting, LLC	Certificate of Authorization #: 24GA28042200
Mailing Address 220 Old New Brunswick Road Suite 201	
City/Town: Piscataway State N	ew Jersey Zip Code: 08854
Phone Number 732.764.0100 Ext.:	Fax: 732.764.0990

Well Permit Number **E202000103**

PROPERTY	OWNER: _	BUCKEYE PC	RT READING	TERMINAL, I	LLC				
Company/Or	ganization: <u>B</u>	uckeye Port Re	eading Terminal	, LLC					
Address: 1	Greenway plan	za suite 600 Ho	ouston, Texas 7	7046					
WELL LOC	CATION: Fo	rmer Hess Port	Reading Comp	lex 10820			· · · · · · · · · · · · · · · · · · ·		
Address: 75	50 Cliff Road								
County: Middlesex Municipality: Woodbridge Twp Lot: 1 Block: 760.02									
ļ.	_		(Y): <u>628925</u>		DATE WELL S	TARTED: January 8.	2020		
<u> </u>	<u> </u>		NAD83) - USFI	EET D.	ATE WELL COM	PLETED: January 8,	2020		
	: MONITOR								
Other Use(s)):	<u> </u>			Local ID: FA	\-4			
WELL CON	ISTRUCTION	N							
Total Depth	Drilled (ft.):_	15	Finished We	ll Depth (ft.):_	15	Well Surface: Flu	sh Mount		
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		ng/Screen # Used os/ch no.)		
Borehole	0	15	8						
Casing Screen	2	15	2 2	-	PVC		Sch 40		
Screen					PVC		.010		
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)		
Grout	0	1	8 8	6	1	19	water (gar.)		
Gravel Pack	1	15	8	2		#1 sand			
Grouting Met	thod: Pressur	e method (Trer	nie Pipe)	Dri	lling Method: Hol	llow Stem Augers			
Protective Ca Static Water I Water Level I Well Develop		elow land surfa tape .5 hrs.	ce	Tot Dri Dri	np Capacity: _ gpm al Design Head: _ f Iling Fluid: Il Rig: <u>CME 75</u> Ilth and Safety Plan	ો.			
<u>ATTACHM</u>	ENTS:								
GEOLOGIC									
	Γ - Other aspha	~	gravelly sands, l						
			gravelly sands, i		some silt				
			c silty clays of l		s some site				
ADDITIONA	AL INFORMA	ATION:							
Driller of Rec		Tavarez, FORING LICE	NSE # 578736		Company:	: UNI-TECH DRILL	ING CO INC		



PROJECT NUMBER: 1114J01.19 **PROJECT NAME:** AOC 103 - Fire Pits Former Port Reading Complex

CLIENT: Hess Corp.

ADDRESS: 750 Cliff Rd., Port Reading, NJ

DRILLING DATE: 1/8/20 **DRILLING COMPANY:** UTD

DRILLER: ET
DRILLING METHOD: HSA

TOTAL DEPTH: 15'

LOGGED BY: KY
DIAMETER: 2"
DTW: 3.5'

CASING: 2' SCREEN: 13'

NOTES: Pre-cleared to 6' using hand auger. Did not observe any ash/burnt material. Set well at 15'

bgs.

, bgo.	1		1		
PID (ppm)	Samples	Depth (ft)	Graphic Log	Material Description	Well Diagram
				ASPHALT	Grout
0.0		1		HISTORIC FILL: Brown fine to coarse sand, some fine gravel and silt, loose, slight petroleum-like odor	Bentonite
0.0		2			
0.0		3		$ar{\Sigma}$	
0.0		4	HF		
0.0		5			
0.0		6			
0.0		7		SILTY SAND: Dark brown fine to medium sand, some silt and fine	
0.0		8		gravel, loose, slight petroleum-like odor	Filter Pack
0.0		9			
0.0		10		SILTY SAND: Brown fine to coarse sand and silt, some fine gravel, slight organic odor	
0.0		11 12	-SM		
0.0		13			
0.0		14			
0.0		15			
					Page 1 of 1



New Jersey Department of Environmental ProtectionSite Remediation Program

Monitoring Well Certification Form B - Location Certification

	(For Department L	use only)
SECTION A. SITE NAME AND LOCATION		
Site Name: Hess Former Port Reading Complex		
List all AKAs:		
Street Address: 750 Cliff Road		
Municipality: Township of Woodbridge	(Township, Borough or City)	
County: Middlesex	Zip Code: 07064	
Program Interest (PI) Number(s):	Case Tracking Number(s):	
SECTION B. WELL OWNER AND LOCATION		
Name of Well Owner		
Well Location (Street Address)		
3. Well Location (Municipal Block and Lot) Bloc	ck# Lot #	
SECTION C. WELL LOCATION SPECIFICS		
1. Well Permit Number (This number must be permaner	ntly affixed to the well casing):	
2. Site Well Number (As shown on application or plans):		
3. Geographic Coordinate NAD 83 to nearest 1/100 of a	a second:	
Latitude: North 40°33'34.70"	Longitude: West 74°14'21.92"	
4. New Jersey State Plane Coordinates NAD 83 datum,	, US survey feet units, to nearest foot:	
North 628880	East <u>564523</u>	
5. Elevation of Top of Inner Casing (cap off) at reference	e mark (nearest 0.01'): 10.22	
Elevation Top of Outer casing: 10.53	Elevation of ground: 10.52 PAVE	
Check one: NAVD 88 □ NVGD29 □ Or	n Site Datum	
6. Source of elevation datum (benchmark, number/deschere, assume datum of 100', and give approximated a	cription and elevation/datum). If an on-site datum is used, ideactual elevation (referencing NAVD 88).	entify
BENCHMARK: NJTP PISCATAWAY CORPS ARP ELEV.= 109.56' (NAVD 88 DATUM)		
7. Significant observations and notes:		
SECTION D. LAND SURVEYOR'S CERTIFICATION	SEAL	
I certify under penalty of law that I have personally examined information submitted in this document and all attachments at those individuals immediately responsible for obtaining the ir submitted information is true, accurate and complete. I am a penalties for submitting false information including the possible submitted information including the possible submitted information including the possible submitted in the process of the proc	and that, based on my inquiry of nformation, I believe the aware that there are significant	
Professional Land Surveyor's Signature:		/2020
Surveyor's Name: James J. Heiser	License Number: 24GS043311	00
Firm Name: DPK Consulting, LLC	Certificate of Authorization #: 24GA280422	.00
Mailing Address 220 Old New Brunswick Road Suite	 	
City/Town: Piscataway	State New Jersey Zip Code: 08854	
Phone Number 732.764.0100	Ext.: Fax: 732.764.0990	

Well Permit Number E202000104

PROPERTY	OWNER:	BUCKEYE PO	RT READING	TERMINAL, I	LC			
Company/Org	ganization: B	uckeye Port Re	ading Terminal	, LLC				
Address: 1	Greenway plaz	za suite 600 Ho	uston, Texas 7	7046				
WELL LOC	ATION: Fo	rmer Hess Port	Reading Comp	lex 10820			· - · ··	
Address: 75	0 Cliff Road							
County: Mi	ddlesex	Municipality	y: Woodbridge	Twp	Lot: 1		Block: <u>760</u>	0.02
Easting (X):	564457	Northing	(Y): <u>628829</u>		DATE WELL S	TAR	ΓED: January 8, 2	020
Coordi	nate System: N	NJ State Plane (NAD83) - USFI	EET DA	ATE WELL COM	IPLE?	ΓED: January 8, 2	020
WELL USE:	MONITOR	ING						
Other Use(s)	•				Local ID: FA	A-5		
WELL CON	STRUCTION	N						
Total Depth	Drilled (ft.):_	15	Finished We	ll Depth (ft.):_	15	Well	Surface: Flush	Mount
	Depth to	Depth to	Diameter		Material			/Screen # Used
Borehole	Top (ft.) 0	Bottom (ft.)	(inches) 8				(1bs/	(ch no.)
Casing	0	2	2	<u></u>	PVC		So	ch 40
Screen	2	15	2		р			010
	Depth to	Depth to	Outer	Inner	Inner Material			
	Top (ft.)	Bottom (ft.)	Diameter (in.)			Ne.	at Cement (lbs.)	Water (gal.)
Grout Gravel Pack	<u> </u>	1 15	8	2 2	1		19 #1 sand	1
	hod: Pressur	e method (Trer			lling Method: _Hol	llow S		
Protective Ca Static Water I Water Level I Well Develop	Level: <u>6</u> ft. be Measure Tool: ment Period: evelopment: <u>pu</u>	elow land surfa tape .5 hrs.	ce	Tot Dri Dri	np Capacity: _ gpm al Design Head: _ f Iling Fluid: Il Rig: <u>CME 75</u> alth and Safety Plan	ft.	nitted? <u>Yes</u>	
ATTACHM	ENTS:							
GEOLOGIC								
	- Other aspha		11 1 1	'1				
			gravelly sands, l d gravelly sands		es some silt			
			c silty clays of l		3 Some Sitt		.	
ADDITION	AL INFORM	ATION:						
	Fribert	o Tavarez,						
Driller of Red		TORING LICE	NSE # 578736		Company	: _UI	NI-TECH DRILLIN	NG CO INC



PROJECT NUMBER: 1114J01.19
PROJECT NAME: AOC 103 - Fire Pits

Former Port Reading Complex **CLIENT**: Hess Corp.

ADDRESS: 750 Cliff Rd., Port Reading, NJ

DRILLING DATE: 1/8/20 **DRILLING COMPANY**: UTD

DRILLER: ET
DRILLING METHOD: HSA
TOTAL DEPTH: 15'

LOGGED BY: KY DIAMETER: 2" DTW: 3.5'

CASING: 2' SCREEN: 13'

NOTES: Pre-cleared to 6' using hand auger. Did not observe any ash/burnt material. PID hits

appear to be associated with organic material. Set well at 15' bgs.

PID (ppm)	Samples	Depth (ft)	Graphic Log	Material Description	Well Diagram
				ASPHALT	Grout
0.0		1		HISTORIC FILL: Brown fine to coarse sand, some fine gravel and silt, loose, slight petroleum-like odor	Bentonite
0.0		2			
0.0		3	HF	<u>▼</u>	
0.0		4			
0.0		5		SANDY SILT: Black silt and fine sand, some clay, moist, soft	
0.0		6	—SM		
0.0		7	0.00	GRAVELLY SAND: Brown fine to coarse sand and fine gravel, some silt, moist, petroleum-like odor	
0.0		8			Filter
0.0		9	0.00		
0.0		10	· · · · · · · · · · · · · · · · · · ·		
0.0		11	-GM		
0.0		12	0000	GRAVELLY SAND: Gray fine to coarse sand and fine gravel, some silt, loose, wet	
17.5		13	0000		
64.2		14			
79.4		15	PT	MEADOW MAT	[:: : ≣:::



New Jersey Department of Environmental ProtectionSite Remediation Program

Monitoring Well Certification Form B - Location Certification

	(For Department use only)
SECTION A. SITE NAME AND LOCATION	
Site Name: Hess Former Port Reading Complex	
List all AKAs:	
Street Address: 750 Cliff Road	
Municipality: Township of Woodbridge	(Township, Borough or City)
County: Middlesex	Zip Code: 07064
Program Interest (PI) Number(s):	Case Tracking Number(s):
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner	
Well Location (Street Address)	
Well Location (Municipal Block and Lot) Block#	Lot #
SECTION C. WELL LOCATION SPECIFICS	
1. Well Permit Number (This number must be permanently affixed to	the well casing):
2. Site Well Number (As shown on application or plans): FA-6	
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:	
Latitude: North 40°33'35.22"	ongitude: West 74°14'19.12"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey fe	eet units, to nearest foot:
North 628934 Ea	ast _564739
5. Elevation of Top of Inner Casing (cap off) at reference mark (near	rest 0.01'): 12.13
Elevation Top of Outer casing: 12.46 RISER Elevation	of ground: 8.78
Check one: NAVD 88 □ NVGD29 □ On Site Datum	☐ Other
6. Source of elevation datum (benchmark, number/description and e here, assume datum of 100', and give approximated actual elevati	levation/datum). If an on-site datum is used, identify on (referencing NAVD 88).
BENCHMARK: NJTP PISCATAWAY CORPS ARP ELEV:= 109.56' (NAVD 88 DATUM)	
7. Significant observations and notes:	
SECTION D. LAND SURVEYOR'S CERTIFICATION	SEAL
I certify under penalty of law that I have personally examined and am fami information submitted in this document and all attachments and that, base those individuals immediately responsible for obtaining the information, I be submitted information is true, accurate and complete. I am aware that the penalties for submitting false information including the possibility of fine are	ed on my inquiry of pelieve the ere are significant
Professional Land Surveyor's Signature:	Date 2/18/2020
Surveyor's Name: James J. Heiser	License Number: 24GS04331100
Firm Name: DPK Consulting, LLC	Certificate of Authorization #: 24GA28042200
Mailing Address 220 Old New Brunswick Road Suite 201	
	lew Jersey Zip Code: 08854
Phone Number 732.764.0100 Ext.:	Fax: 732.764.0990
1 ARTON 1	

Well Permit Number **E202000105**

PROPERTY	OWNER: _1	BUCKEYE PO	RT READING	TERMINAL, I	LC				
Company/Or	ganization: <u>B</u>	uckeye Port Re	ading Terminal	, LLC					
Address: 1	Greenway plaz	za suite 600 Ho	uston, Texas 7	7046					
WELL LOC	ATION: Fo	rmer Hess Port	Reading Comp	lex 10820			<u> </u>		
Address: 75	50 Cliff Road								
County: Mi	ddlesex	_ Municipality	y: <u>Woodbridge</u>	Twp	_ Lot: 1	Block: _7	50.02		
			(Y): <u>628934</u>		DATE WELL S	TARTED: January 10	, 2020		
Coordi	nate System: N	IJ State Plane (NAD83) - USFI	EET DA	ATE WELL COM	PLETED: January 10	, 2020		
WELL USE	MONITOR	ING							
Other Use(s)):		 -		Local ID: FA	A-6			
WELL CON	STRUCTION	N							
Total Depth	Drilled (ft.):_	15	Finished We	ll Depth (ft.):	15	Well Surface: Flus	sh Mount		
	Depth to Depth to Diameter Material Wgt/Rating/Screen # Used Top (ft.) Bottom (ft.) (inches) (lbs/ch no.)								
Borehole 0 15 6									
Casing Screen	0	2 15	2 2		PVC		Sch 40		
Screen		I			PVC		.010		
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)		
Grout	0	1	8	2	1	19	1		
Gravel Pack	1	5	8	2		#1 sand			
Grouting Met	hod: Pressur	e method (Trer	nie Pipe)	Dri	lling Method: <u>Hol</u>	low Stem Augers			
Protective Ca Static Water I Water Level I Well Develop		elow land surfa m-scope 1 hrs.	ce	Tot Dri Dri	np Capacity: _ gpm al Design Head: _ f lling Fluid: ll Rig: <u>6712dt</u> alth and Safety Plan	ì.			
<u>ATTACHM</u>	ENTS:								
GEOLOGIC									
	Γ - Other grave		gravelly sands, l	ittle or no fines					
			gravelly sands,		s some silt				
			c silty clays of l						
ADDITIONA	AL INFORMA	ATION:	•						
	Eribert	o Tavarez,							
Driller of Red			NSE # 578736		Company	: UNI-TECH DRILL	ING CO INC		



PROJECT NUMBER: 1114J01.19
PROJECT NAME: AOC 103 - Fire Pits

Former Port Reading Complex **CLIENT**: Hess Corp.

ADDRESS: 750 Cliff Rd., Port Reading, NJ

DRILLING DATE: 1/9/20 **DRILLING COMPANY**: UTD

DRILLER: ET
DRILLING METHOD: HSA

TOTAL DEPTH: 15'

LOGGED BY: KY
DIAMETER: 2"
DTW: 2.5'
CASING: 2'

CASING: 2' SCREEN: 13'

NOTES: Pre-cleared to 6' using hand auger. Did not observe any ash/burnt material. PID hits

appear to be associated with organic material.

Material Description Well Diagram	appour to b	e associated with	1			
HISTORIC FILL: Brown fine to coarse sand, some fine gravel and silt, loose	PID (ppm)	Samples	Depth (ft)		Material Description	Well Diagram
Dose				0000	GRAVEL	Grout
0.0	0.0		1			Bentonite
0.0	0.0		2		<u> </u>	
0.0	0.0		3	HF HF		
CLAYEY SILT: Dark brown/black silt, some clay, wet, soft, organic odor O.0 SILTY SAND: Dark brown fine to coarse sand, some silt and fine gravel, loose SILTY SAND: Brown fine to coarse sand, some silt and fine gravel, loose SILTY SAND: Brown fine to coarse sand, some silt and fine gravel, loose SILTY SAND: Brown fine to coarse sand, some silt and fine gravel, loose O.0 11 -SM 0.0 12 MEADOW MAT	0.0		4			
0.0	0.0		5		CLAYEY SILT: Dark brown/black silt, some clay, wet, soft, organic odor	
0.0	0.0		6	-OL		
SILTY SAND: Dark brown fine to coarse sand, some silt and fine gravel, loose SILTY SAND: Brown fine to coarse sand, some silt and fine gravel, loose SILTY SAND: Brown fine to coarse sand, some silt and fine gravel, loose O.0			7			
0.0						Filter Pack
0.0					SILTY SAND: Brown fine to coarse sand, some silt and fine gravel, loose	
0.0 0.0 13 MEADOW MAT				SW.		
0.0				-SIM		
36.4 PT MEADOW MAT						
					MEADOW MAT	
	43.5		15	PT	INICADOW MAI	



New Jersey Department of Environmental ProtectionSite Remediation Program

Monitoring Well Certification Form B - Location Certification

	(For Department use only)
SECTION A. SITE NAME AND LOCATION	
Site Name: Hess Former Port Reading Complex	
List all AKAs:	
Street Address: 750 Cliff Road	
Municipality: Township of Woodbridge	(Township, Borough or City)
County: Middlesex	Zip Code: 07064
Program Interest (PI) Number(s):	Case Tracking Number(s):
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner	
Well Location (Street Address)	
Well Location (Municipal Block and Lot) Block#	Lot #
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently)	affixed to the well casing):
2. Site Well Number (As shown on application or plans): F	The same of the sa
3. Geographic Coordinate NAD 83 to nearest 1/100 of a se	cond:
Latitude: North 40°33'34.34"	Longitude: West 74°14'16.20"
4. New Jersey State Plane Coordinates NAD 83 datum, US	survey feet units, to nearest foot:
North 628845	East 564964
5. Elevation of Top of Inner Casing (cap off) at reference m	ark (nearest 0.01'): 10.40
Elevation Top of Outer casing: 10.94 RISER	Elevation of ground: 7.64
Check one: ⊠ NAVD 88 ☐ NVGD29 ☐ On Si	te Datum
6. Source of elevation datum (benchmark, number/descript here, assume datum of 100', and give approximated actu	on and elevation/datum). If an on-site datum is used, identify all elevation (referencing NAVD 88).
BENCHMARK: NJTP PISCATAWAY CORPS ARP ELEV.= 109.56' (NAVD 88 DATUM)	
7. Significant observations and notes:	
+	
SECTION D. LAND SURVEYOR'S CERTIFICATION	SEAL
I certify under penalty of law that I have personally examined an information submitted in this document and all attachments and those individuals immediately responsible for obtaining the infor submitted information is true, accurate and complete. I am awa penalties for submitting false information including the possibility	that, based on my inquiry of mation, I believe the re that there are significant
Professional Land Surveyor's Signature:	Date 2/18/2020
Surveyor's Name: James J. Heiser	License Number: 24GS04331100
Firm Name: DPK Consulting, LLC	Certificate of Authorization #: 24GA28042200
Mailing Address 220 Old New Brunswick Road Suite 20	
City/Town: Piscataway St	ate New Jersey Zip Code: 08854
Phone Number 732.764.0100 Ex	tt.:Fax: 732.764.0990

Well Permit Number **E202000106**

PROPERTY	OWNER: _I	BUCKEYE PO	RT READING	TERMINAL, L	LC			
Company/Or	ganization: <u>B</u>	uckeye Port Re	ading Terminal	, LLC				
Address: 1	Greenway plaz	za suite 600 Ho	uston, Texas 77	7046	<u></u>			
WELL LOC	ATION: Fo	rmer Hess Port	Reading Compl	lex 10820				
	50 Cliff Road							
County: Mi	ddlesex	_ Municipality	y: <u>Woodbridge</u>	Twp	Lot: 1	Block: _7	50.02	
			(Y): <u>628885</u>		DATE WELL ST	ΓARTED: January 10	, 2020	
			NAD83) - USFI	EET DA	ATE WELL COM	PLETED: January 10	, 2020	
	: MONITOR							
Other Use(s)	·	· · · · · ·			Local ID: <u>FA</u>	7		
WELL CON	STRUCTION	1						
Total Depth	Drilled (ft.):_	15	Finished We	ll Depth (ft.):	15	Well Surface: Flus	sh Mount	
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)	
Borehole								
Casing	0	2	2		PVC		Sch 40	
Screen	2	15	2		PVC		.010	
	Depth to	Depth to	Outer	Inner	D : : (II)	Material		
Grout	Top (ft.) 0	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Gravel Pack	1	15	8	2		#1 sand	1	
Grouting Met	thod: Pressur	e method (Trer	nie Pipe)	Dri	lling Method: Hol	low Stem Augers		
Protective Ca Static Water I Water Level I Well Develop		elow land surfa m-scope 1 hrs.	ce	Tot Dri Dri	np Capacity: _ gpm al Design Head: _ f lling Fluid: ll Rig: <u>6712dt</u> llth and Safety Plan	t.		
<u>ATTACHM</u>	ENTS:							
GEOLOGIC								
	Γ - Other grave							
			gravelly sands, l gravelly sands,		a gama silt			
			c silty clays of l		s some sm			
	AL INFORMA							
ADDITION	AL INFORM	ATION:						
Driller of Red		o Tavarez, FORING LICE	NSE # 578736		Company:	UNI-TECH DRILL	ING CO INC	



PROJECT NUMBER: 1114J01.19 **PROJECT NAME:** AOC 103 - Fire Pits Former Port Reading Complex

CLIENT: Hess Corp.

ADDRESS: 750 Cliff Rd., Port Reading, NJ

DRILLING DATE: 1/9/20 **DRILLING COMPANY:** UTD

DRILLER: ET
DRILLING METHOD: HSA
TOTAL DEPTH: 15'

LOGGED BY: KY
DIAMETER: 2"
DTW: 2.5'

CASING: 2' SCREEN: 13'

NOTES: Pre-cleared to 6' using hand auger. Did not observe any ash/burnt material. PID hits

appear to be associated with organic material. Set well at 15' bgs.

PID (ppm)	Samples	Depth (ft)	Graphic Log	Material Description	Well Diagram
0.0 0.0 0.0 0.0		1 2 3	HF		- Grout - Bentonite
0.0 0.0 0.0 0.0		6 7 8	-SM	SILTY SAND: Brown fine to coarse sand and silt, some fine gravel, loose SILTY SAND: Dark brown fine to coarse sand and silt, some fine gravel,	Filter
0.0		10 11		loose, organic odor GRAVELLY SILTY SAND: Dark brown fine to coarse sand, silt and fine gravel, loose, organic odor	
0.0		12	GM		
10.7 46.0		13 14	PT	MEADOW MAT	
61.8		15			Page 1 of 1